[NAME OF DOCUMENT] Document of abstract

[ABSTRACT]

[PURPOSE]

Providing a semiconductor device with a TFT structure with high reliability

[MEANS]

In a CMOS circuit formed on a substrate 100, a subordinate gate wiring line (a first wiring line) 102a and main gate wiring line (a second wiring line) 107a is provided in an n-channel TFT. The LDD regions 113 overlaps the first wiring line 102a and does not overlap the second wiring line 107a. Thus, applying a gate voltage to the first wiring line forms the GOLD structure, while not applying forms the LLD structure. In this way, the GOLD structure and the LLD structure can be used appropriately in accordance with the respective specifications required for the circuits.

[SELECTED FIGURE] Fig. 1

[DESCRIPTION OF A MARK]

- 101 A substrate
- 102a, 102b and 102c First wiring lines
- 103 A first insulating layer
- 104 and 105 Active layers
- 106 A second insulating layer
- 107a, 107b, 107c and 107d Second wiring lines
- (107al, 107bl, 107cl and 107dl First conductive layers
- 107a2, 107b2, 107c2 and 107d2 Second conductive layers
- 107d3 A third conductive layer)
- 108 A first interlayer insulating layer
- 109~111 Third wiring lines
- (109, 110 Source wiring lines
- 111 A drain wiring line)
- 201 A substrate
- 202a, 202b and 202c First wiring lines
- 203 A first insulating layer
- 204 An active layer
- 205 A second insulating layer
- 206a, 206b and 206c Second wiring lines
- (206al, 206bl and 206cl First conductive layers
- 206a2, 206b2 and 206c2 Second conductive layers
- 206a3 A second conductive layer)
- 207 A capacitor wiring line
- (207a A first conductive layer
- 207b A second conductive layer)
- 208 A first interlayer insulating layer
- 209 A source wiring line
- 210 A drain wiring line
- 211 A second interlayer insulating layer
- 212 Black masks
- 213 A third interlayerinsulating layer
- 214 A pixel electrode
- 215 and 216 Channel formation regions

601 A substrate with an insulating surface A pixel matrix circuit 602 A source driver circuit 603 604 A gate drivier circuit 605 A signal processing circuit An FPC 606 An opposite substrate 1007 701 A pixel matrix circuit 702a and 703a Shift register circuits 702b and 703b Level shifter circuits 702c and 703c Buffer circuits 703d A sampling circuit 704 A precharge circuit 2001 A main body An audio output unit 2002 An audio input unit 2003 A display device 2004 Operation switches 2005 2006 An antenna 2101 A main body A display device 2102 An audio input unit 2103 Operation switches 2104 2105 A battery 2106 An image receiving unit A main body 2201 2202 A camera unit 2203 An image receiving unit 2204 Operation switches A display device 2205

A main body

2301

2302	Display devices
2303	Arm units
2401	A main body
2402	A light source
2403	A display device
2404	A polarization beam splitter
2405	Reflector
2406	Reflector
2407	A screen
2501	A main body
2502	A light source
2503	A display device
2504	An optical system
2505	A screen
[BRIEF DESCR	IPTION OF THE FIGURES]
[Fig. 2](A)	A pixel TFT portion
	A storage capacitor portion
(B)	A storage capacitor portion
[Fig. 3](A)	A phosphorus doping step
(B)	A boron doping step
(C)	A back side exposure step, A phosphorus doping
	step
[Fig. 9](A)	A pixel TFT portion
	A storage capacitor portion
(B)	A pixel TFT portion
	A storage capacitor portion
[Fig. 10](B)	A pixel TFT portion
	A storage capacitor portion
[Fig. 11](B)	A pixel TFT portion
	A storage capacitor portion
[Fig. 12](A)	A gettering step by phosphorus
(C)	A boron doping step
(D)	A back side exposure step, A phosphorus doping